

MDC Up-date

Charlotte, NC
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MDC Up-date

- ◆ Goal/approach
- ◆ Some milestones
- ◆ This Year's Projected Activities
- ◆ MDC 4.0



Goal

Develop and implement procedures designed to ensure emissions data accuracy and quality while reducing the financial and transaction costs of monitoring.



Approach

- ◆ Provide free software to allow sources to quality assure the EDR data before submission.
- ◆ Provide technical assistance and training in software use.
- ◆ Work with sources to address reporting problems as they arise.



Current versions software

- ◆ Released EDR 2.1 Instruction in January 24, 2001
- ◆ Released MDC v 3.3: January 24, 2001



Other Tools Provided

- ◆ Created e-mail boxes for sources to submit MP, QA data outside quarterly report for certification/recertification.
- ◆ Provided ETS-FTP software for source to submit quarterly report.
- ◆ Provided feedback on applications and reports.



Results of Recent MDC quarterly report feedback

- ◆ 2000:
 - 2nd quarter: 349 units have critical error(s)
 - 3rd quarter: 190 units have critical error(s)
 - 4th quarter: 87 units have critical error(s)
- ◆ 2001
 - 1st quarter: 59 units have critical error(s)



This Year's Projected Activities

- ◆ Release in November, 2001 (use not required until 2002):
 - Update of EDR 2.1 instructions
 - RATA- Flow
 - MDC v 4.0
- ◆ Provide FTP in MDC v 4.0 for sources to submit MP, QA data outside quarterly cycle for certification/recertification
- ◆ Create an MDC/EDR user group



RATA- Flow

- ◆ RATA-Flow was developed for testing companies and sources to facilitate:
 - Entry of the raw data for new flow methods
 - Creation of RTs 610, 611, 614, 615 and 616



MDC v 4.0

- Source can quality assure all data - MP, QA and emission data with one tool
- ◆ Adds hourly data checking and graphing capacity
 - ◆ Checks system control status (in/out-of control)
 - ◆ Adds FTP capacity for cert/recert



Hourly data checking and graphing capacity

- ◆ Calculate data on a hourly, daily, monthly, and annual basis based on the monitoring data.
- ◆ Provide graphical plots of EDR data.
- ◆ Export in a format to allow additional data analysis outside the MDC.



Open EDR File

Click **Add File** to select up to four EDR files for importing into the MDC Hourly Data Review.

The four EDR files must be EDR Version 2.1 and must have the same ORIS Code and Unit ID. Non-EDR Version 2.1 files and files that don't match on ORIS Code, Unit ID, and calendar year will be rejected.

ORIS Code: [Go to EDR Files Download Area on Web](#)

Unit/Stack ID(s)	Period	EDR Filename
	1	
	2	
	3	
3	4-2000	O:\DATA\ETS\00Q4\018433.004

0%

Scanning EDR File: O:\DATA\ETS\00Q4\018433.004

Writing Output File: C:\TEMP\122906PM_4.PQA

Writing File Contents File: C:\TEMP\122906PM_4.STS

Writing Log File: C:\TEMP\122906PM.LOG



File Contents for Quarter: 3 Year: 2000

ORIS Code: **988** Plant Name: **TANNERS CREEK IN**

Monitoring Location: **Stack ID CS013**

Maximum Hourly Heat Input:

Program:

Fuel Types:

Monitoring Methodologies

SO2:

NOx:

CO2:

Heat Input:

Record Counts

	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total
RT 200	0	0	2208	0	2208
RT 201	0	0	2208	0	2208
RT 202	0	0	2208	0	2208
RT 210	0	0	2208	0	2208
RT 220	0	0	2208	0	2208
RT 300	0	0	2208	0	2208
RT 301	0	0	1	0	1
RT 310	0	0	2208	0	2208
RT 320	0	0	2208	0	2208
RT 330	0	0	2208	0	2208



MDA Hourly Checking Software

File: Review Quarterly Report Reports: Utilities Window Help

Detailed Emissions Data for Quarter: 3 Year: 2000

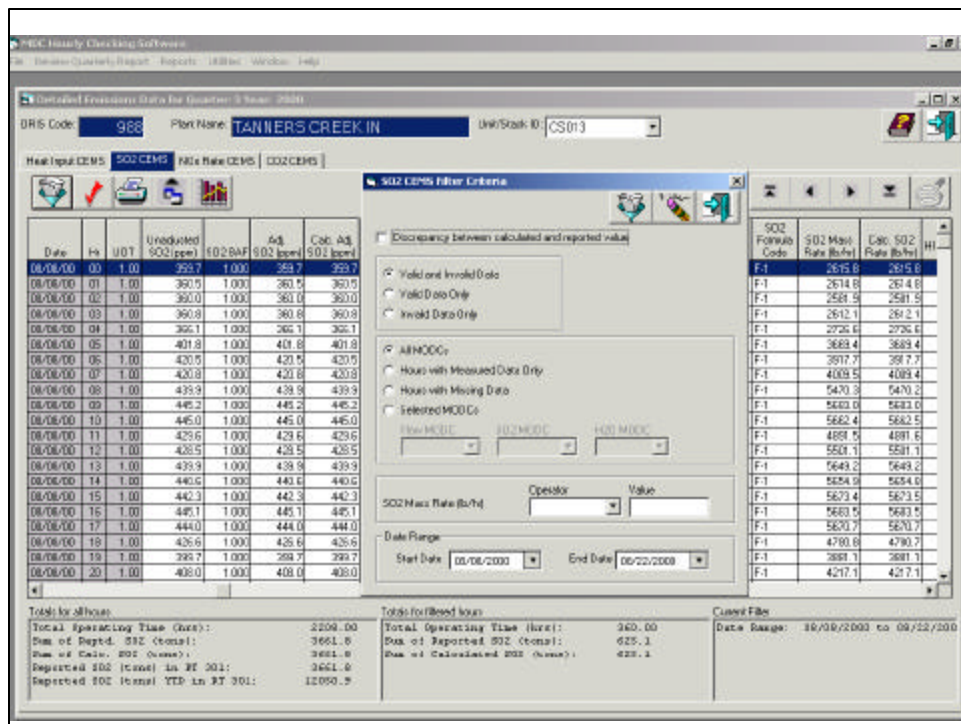
ORIS Code: **988** Plant Name: **TANNERS CREEK IN** Unit/Stack ID: **CS013**

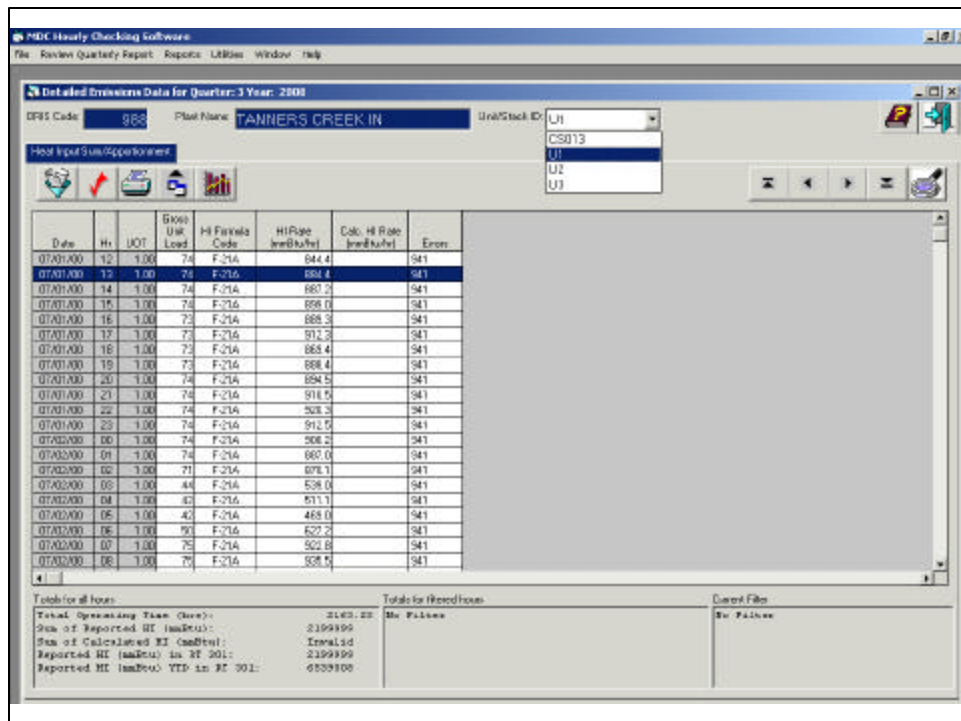
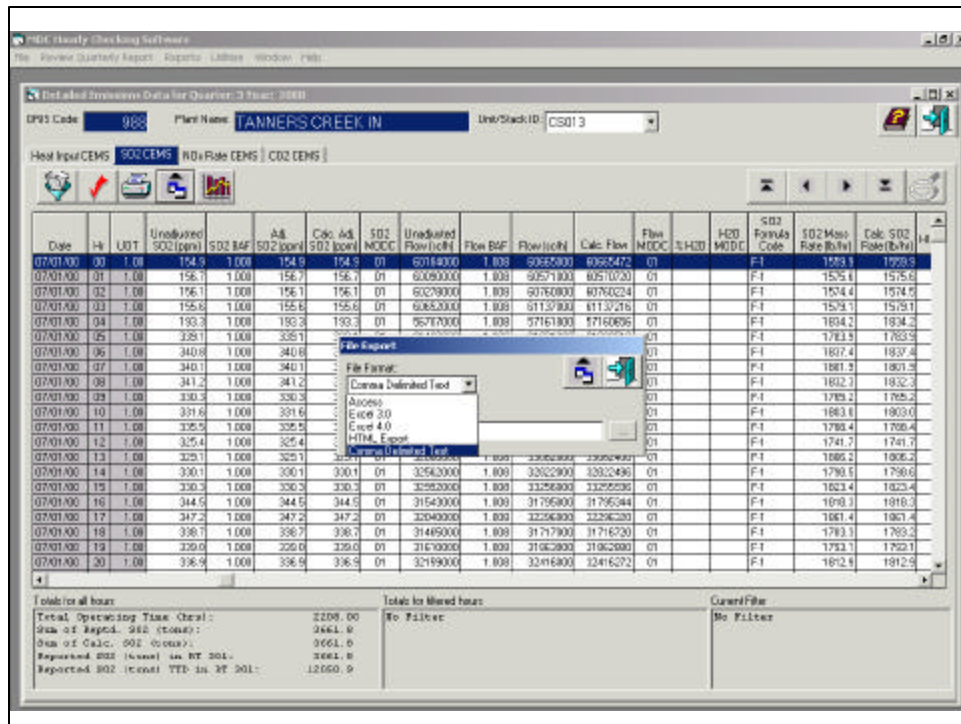
Heat Input CEMS | SO2 CEMS | NOx Risk CEMS | CO2 CEMS

Date	Hr	UOT	Unadjusted SO2 (ppm)	SO2 BAF	Adj SO2 (ppm)	Calc Adj SO2 (ppm)	SO2 MDOCC	Unadjusted Flow (scfh)	Flow BAF	Flow (scfh)	Calc Flow	Flow MDOCC	SO2 Rate (lb/hr)	SO2 Rate (lb/hr)	Calc SO2 Rate (lb/hr)
02/01/00	00	1.00	154.9	1.000	154.9	154.9	01	80184000	1.000	80184000	99567472	01	F-1	1559.3	1559.3
02/01/00	01	1.00	156.7	1.000	156.7	156.7	01	80050000	1.000	80050000	99570720	01	F-1	1579.5	1579.5
02/01/00	02	1.00	156.1	1.000	156.1	156.1	01	80278000	1.000	80278000	99760224	01	F-1	1574.4	1574.5
02/01/00	03	1.00	155.6	1.000	155.6	155.6	01	80052000	1.000	80130000	91137216	01	F-1	1579.1	1579.1
02/01/00	04	1.00	193.9	1.000	193.9	193.9	01	56707000	1.000	57167000	57160656	01	F-1	1834.2	1834.2
02/01/00	05	1.00	229.1	1.000	229.1	229.1	01	31425000	1.000	31697000	31690612	01	F-1	1793.2	1793.2
02/01/00	06	1.00	340.8	1.000	340.8	340.8	01	32221000	1.000	32479000	32470656	01	F-1	1837.4	1837.4
02/01/00	07	1.00	340.1	1.000	340.1	340.1	01	31648000	1.000	31917000	31917712	01	F-1	1801.9	1801.9
02/01/00	08	1.00	341.2	1.000	341.2	341.2	01	32094000	1.000	32367000	32360752	01	F-1	1892.3	1892.3
02/01/00	09	1.00	330.3	1.000	330.3	330.3	01	31928000	1.000	32198000	32192064	01	F-1	1765.2	1765.2
02/01/00	10	1.00	331.6	1.000	331.6	331.6	01	32495000	1.000	32755000	32754960	01	F-1	1803.0	1803.0
02/01/00	11	1.00	335.5	1.000	335.5	335.5	01	31857000	1.000	32112000	32111856	01	F-1	1788.4	1788.4
02/01/00	12	1.00	325.4	1.000	325.4	325.4	01	31988000	1.000	32244000	32243804	01	F-1	1741.7	1741.7
02/01/00	13	1.00	329.1	1.000	329.1	329.1	01	32309000	1.000	32563000	32562800	01	F-1	1806.2	1806.2
02/01/00	14	1.00	330.1	1.000	330.1	330.1	01	32542000	1.000	32802000	32802496	01	F-1	1798.5	1798.5
02/01/00	15	1.00	330.3	1.000	330.3	330.3	01	32352000	1.000	32614000	32613836	01	F-1	1822.4	1822.4
02/01/00	16	1.00	344.5	1.000	344.5	344.5	01	31543000	1.000	31796000	31795344	01	F-1	1818.3	1818.3
02/01/00	17	1.00	347.2	1.000	347.2	347.2	01	32040000	1.000	32296000	32296320	01	F-1	1861.4	1861.4
02/01/00	18	1.00	338.7	1.000	338.7	338.7	01	31485000	1.000	31717000	31716720	01	F-1	1783.2	1783.2
02/01/00	19	1.00	339.0	1.000	339.0	339.0	01	31610000	1.000	31863000	31862880	01	F-1	1793.1	1793.1
02/01/00	20	1.00	336.9	1.000	336.9	336.9	01	32152000	1.000	32416000	32416272	01	F-1	1812.9	1812.9

Totals for all days: Total Operating Time (Hours): 2208.00
 Sum of Reported SO2 (tons): 2661.8
 Sum of Calculated SO2 (tons): 2661.8
 Reported SO2 (tons) in RT 301: 2661.8
 Reported SO2 (tons) TPD in RT 301: 1330.9

Totals by Month: No Filter
 Days Filter: No Filter





MDC Hourly Checking Software

File Review Quarterly Report Reports Utilities Window Help

Summary Emissions Data for Quarter 3, Year 2000

DRS Code: 988 Plant Name: TANNERS CREEK IN Unit/Stack ID: CS113

Hourly Daily Monthly Quarterly

Filter Criteria: No Filter Criteria Selected

Date	HR	Operating Time (hr)	Reported HI (lb/hr)	Calculated HI (lb/hr)	Reported SO2 (lb)	Calculated SO2 (lb)	Reported NOx Rate (lb/hr)	Calculated NOx Rate (lb/hr)	Reported NOx Mass (lb)	Calculated NOx Mass (lb)	Reported CO2 Mass (lb)	Calculated CO2 Mass (lb)
07/01/00	00	1.00	1482.9	1482.9	1558.9	1558.9	0.630	0.630	Not Rptd	534.2	152.1	152.1
07/01/00	01	1.00	1488.6	1488.6	1575.6	1575.6	0.629	0.629	Not Rptd	531.3	151.9	151.9
07/01/00	02	1.00	1485.2	1485.2	1571.4	1571.4	0.629	0.629	Not Rptd	530.3	152.4	152.1
07/01/00	03	1.00	1494.5	1494.5	1579.1	1579.1	0.643	0.643	Not Rptd	961.0	153.3	153.1
07/01/00	04	1.00	1746.4	1746.4	1624.2	1624.2	0.646	0.646	Not Rptd	1120.3	179.2	179.2
07/01/00	05	1.00	1672.6	1672.6	1769.9	1769.9	0.637	0.637	Not Rptd	1065.4	171.6	171.6
07/01/00	06	1.00	1714.2	1714.2	1837.4	1837.4	0.634	0.634	Not Rptd	1086.0	175.9	179.2
07/01/00	07	1.00	1684.5	1684.5	1801.9	1801.9	0.607	0.607	Not Rptd	1022.5	172.8	172.8
07/01/00	08	1.00	1725.4	1725.4	1832.3	1832.3	0.617	0.617	Not Rptd	1064.6	177.0	177.0
07/01/00	09	1.00	1717.0	1717.0	1765.2	1765.2	0.590	0.590	Not Rptd	1013.0	176.2	176.2
07/01/00	10	1.00	1748.9	1748.9	1803.0	1803.0	0.578	0.578	Not Rptd	1005.7	179.2	179.2
07/01/00	11	1.00	1712.6	1712.6	1788.4	1788.4	0.585	0.585	Not Rptd	1001.9	175.7	175.7
07/01/00	12	1.00	1665.9	1665.9	1741.7	1741.7	0.585	0.585	Not Rptd	974.6	170.9	170.9
07/01/00	13	1.00	1744.9	1744.9	1806.2	1806.2	0.593	0.593	Not Rptd	1034.8	179.0	179.0
07/01/00	14	1.00	1759.5	1759.5	1799.6	1799.6	0.597	0.597	Not Rptd	1027.5	179.6	179.6
07/01/00	15	1.00	1779.7	1779.7	1823.4	1823.4	0.578	0.578	Not Rptd	1011.0	182.0	182.0
07/01/00	16	1.00	1768.4	1768.4	1818.3	1818.3	0.514	0.514	Not Rptd	907.9	181.2	181.2
07/01/00	17	1.00	1812.2	1812.2	1867.4	1867.4	0.510	0.510	Not Rptd	924.2	185.9	185.9

Totals:

	Reported Operating Hours	Reported HI (lb/hr)	Calculated HI (lb/hr)	Reported SO2 (lb)	Calculated SO2 (lb)	Reported NOx Rate (lb/hr)	Calculated NOx Rate (lb/hr)	Reported NOx Mass (lb)	Calculated NOx Mass (lb)	Reported CO2 Mass (lb)	Calculated CO2 Mass (lb)
Filtered Hours:	2239.30	652002	652004	3681.8	3681.8	0.673	0.673	Not Rptd	2271.8	629214.3	629214.3
RT 301		652002		3681.8		0.673				629214.3	
RT 301 YTD		21835107		12060.9		0.604				2240342.1	

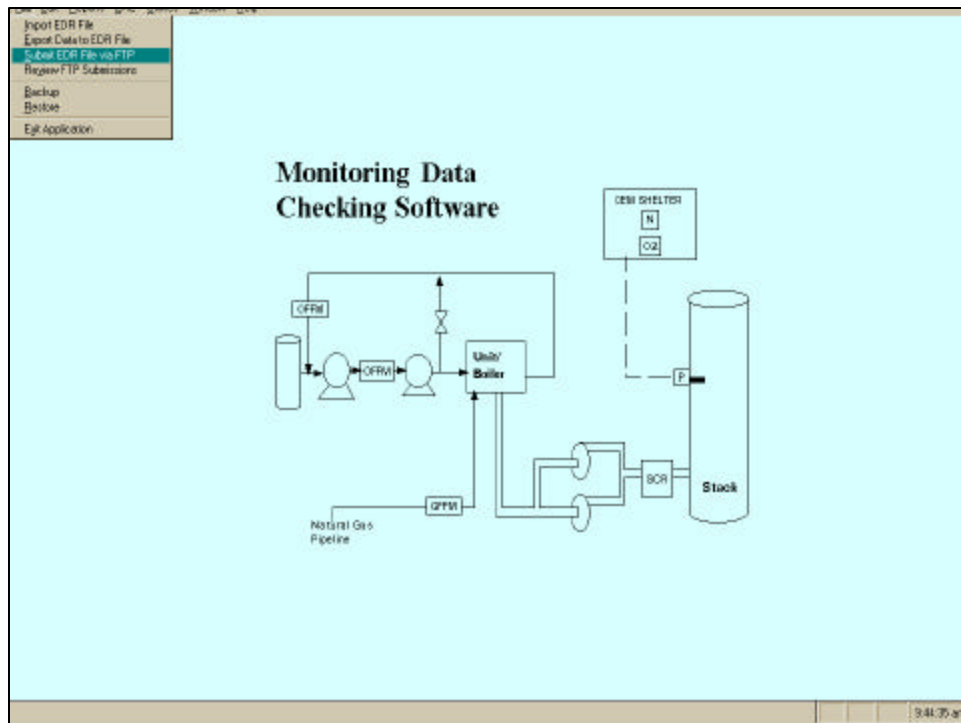
System control status (in/out-of control)

- ◆ Will allow evaluation of hourly QA status according to Part 75 requirements.
- ◆ Evaluation will be based on:
 - MDC recalculated results
 - RT 556, RTs 690's and the reasons for test in RTs 600's.



FTP capacity

- ◆ Source can submit certification and recertification application using FTP.
- ◆ Source will receive acknowledge receipt on the certification and recertification application.
- ◆ Still won't eliminate 10 day lag in MDC quarterly report feedback.



Submit EDR File via FTP to EPA: 3_22001_77

ORIS	Period	Plant Name	Submission Date	Submission Number	Submission Status
3	Y2001 Q2	BARRY	05/11/2001	77	Submission in Progress

Unit / Stack IDs: 1, 2, 3, C80AAB

Transfer Status

100%	Verifying current versions of MDC and Critical Error List...
100%	Submitting Monitoring Plan for 3_22001_77 to EPA...

Submission Log

```

220- any person, whether authorized or unauthorized, constitutes consent
220- to these terms.
220-
220- Welcome to the FTP service at upload.epa.gov. Please report problems to
220- internet_support@unitsmail.rtpnc.epa.gov
220-
220- Access to this site via passive FTP may be limited. If you
220- experience problems, please switch to active FTP.
220-
220-
220- upload.epa.gov FTP server ready.
221 Guest login ok, send your complete e-mail address as password.
220 Guest login ok, access restrictions apply.
TYPE A
200 Type set to A.
TYPE I
200 Type set to I.
250 CWD command successful.
200 PORT command successful.
STOR MDC_3_22001_77.DTP
Upload Finished - - 3469 Bytes Transferred.
  
```



Review FTP Submission Detail Report

ORIS	Period	Plant Name	Submission Date	Submission Number	Submission Status
3	Y2001 Q2	BARRY	05/08/2001	34	Submission Failed

Unit / Stack IDs: 1, 2, 3, 4, 5, 6A, 6B, C80AAB, H84A, H84B, H85A, H85B

Print Options:

<input checked="" type="checkbox"/> EDR File	<input checked="" type="checkbox"/> Monitoring Plan Evaluation
<input checked="" type="checkbox"/> Submission Log	<input checked="" type="checkbox"/> QA Test Evaluation
<input checked="" type="checkbox"/> Critical Errors Report	<input checked="" type="checkbox"/> Test Extensions Evaluation
	<input checked="" type="checkbox"/> Compliance Certification Evaluation

Close

Submission Log

```

////////////////////////////////////
////////////////////////////////////

MDC Version File: E:\PROGRAM FILES\MDC V33\DATA\BROWNE.DAT
Current Version: MDC Version 4.0
Audit Error Version 1.0

Starting FTP session...

##### Download Current Version Information #####

Connecting to FTP server.
Connected.
220-
220- WARNING NOTICE
220-
  
```



MDC/ EDR User Group

Purpose:

- ◆ ID of problem areas needing EMB attention
- ◆ Get “real world” feedback on needed and proposed changes prior to incorporation.
- ◆ ID opportunities for streamlining reporting requirements.

